## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (Currently Amended) An isolated modified-rat prostate apoptosis responsive 4

(Par-4) protein fragment comprising a substitution of least one amino
acid residue in the amino acid sequence of a precursor Par-4 in at least
one position of naturally produced Par-4, selected from the group
consisting of amino acids 1-204, 137-221, 137-213, 137-198 and 137-195 of
the Par-4 protein wherein the modified Par-4 protein fragment is effective
in reducing the size of tumors resistant to apoptosis by Par-4; and
wherein the modified Par-4 is a Par-4s.

## Claim 2-5 (Cancelled)

- 6. (Currently Amended) An isolated <u>fusion</u> polypeptide comprising at least five amino acid residues, wherein the polypeptide has a sequence encoded by a nucleic acid contained in one or more sequences comprising at least 500 contiguous nucleotides including a polymorphic site comprising the mutant of <u>a</u> Par-4 <u>fragment</u> selected from the group consisting of <u>amino</u> acids 1-204, 137-221, 137-213, 137-198 and 137-195 of Par-4 protein.
- 7. (Withdrawn-Currently amended) A method of producing a polypeptide, comprising incubating a host cell comprising a nucleic acid encoding [[a]] the Par-4 protein fragment polypeptide of claim [[4]] 1 under conditions that permit expression of the Par-4 protein fragment polypeptide.
- 8. (Withdrawn) A method of producing a polypeptide, comprising incubating a cell of claim 5 under conditions that permit expression of one or more polypeptides encoded by the nucleic acid.

Claim 9. Cancelled)

- 10. (Withdrawn) A method of screening for therapeutic agents comprising selecting an X-associated specific sequence as a target sequence; contacting a test compound with the target sequence; and selecting as candidate therapeutic agents those test compounds which bind to the target sequence.
- 11. (Withdrawn) The method of claim 9, wherein the sequence is a polypeptide encoded by one or more sequences of claim 3.

Claims 12-17 (Cancelled)

- 18. (Withdrawn-currently amended) A method of treating cancer in a subject suffering therefrom, comprising administering to the subject a modified Par-4 mutant protein selected from the group consisting of amino acids 1-204, 137-221, 137-213, 137-198 and 137-195 of the Par-4 protein, wherein the administration of the Par-4 mutant protein causes reduction of tumors resistant to apoptosis by Par-4.
- 19. (Withdrawn) The method of claim 18, wherein the cancer is selected from the group consisting of prostate cancer, breast cancer and lung cancer.
- 20. (Withdrawn) The method of claim 18, wherein the subject is selected from the group consisting of a canine, a feline, an ovine, a primate, an equine, a porcine, a caprine, a camelid, an avian, a bovine, amphibian, fish or a murine organism.
- 21. (Withdrawn) The method of claim 20, wherein the subject is a primate.
- 22. (Withdrawn) The method of claim 21, wherein the subject is human.
- 23. (Withdrawn) The method of claim 18, wherein the Par-4 mutant a mutant of Par-4 selected from the group consisting of 1-204, 137-221, 137-213, 137-198 and 137-195.
- 24. (Currently Amended) A pharmaceutical composition for the treatment of cancer, comprising an isolated and purified modified Par-4 protein mutant

comprising the amino acid sequence comprising at least 500 contiguous nucleotides including a polymorphic site comprising a mutant of Par-4 selected from the group consisting of amino acids 1-204, 137-221.137-213, 137-198 and 137-19 of the Par-4 protein, and a pharmaceutically acceptable diluent, carrier or excipient.